

### Ceiling/Floor Mounted Fan Coil Unit

- KCM-18CHW
- KCM-24CHW
- KCM-36CHW
- KCM-60CHW



#### 1. SAFETY PRECAUTION

- Please read this manual carefully before operating the fan coil unit.
- Pay special attention to signs of "WARNING". The "Warning" section contains matters, which, if not observed strictly, may cause death or serious injury.
- Please follow all instructions strictly to help ensure your safety.

#### WARNING

- All wiring must conform to local and national electrical codes.
- To avoid possible electrical shock, you must ground your fan coil unit.
- This fan coil unit requires a separate power supply on a separately fused circuit.
- Do not insert your finger, a stick, or any other object into the air inlet and air outlet.
- Do not expose the skin directly to the indoor airflow for an extended period of time.

#### REMINDER

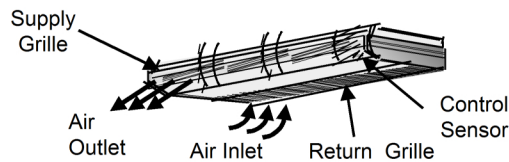
- Keep this manual for future reference as it contains important installation and safety instructions.

#### Call for service immediately when:

- Abnormal operating noise is heard.
- A fuse blows or a circuit breaker trips frequently.
- The controls do not work properly.

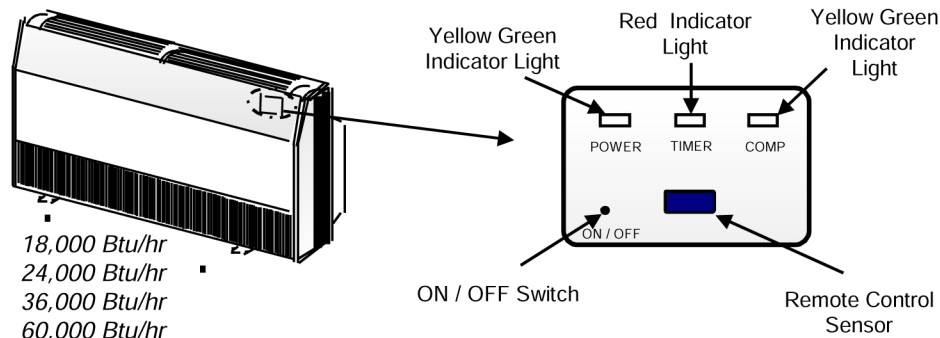
#### 2. PARTS NAME

##### A. SHOWN AS CEILING MOUNTED UNIT



- 18,000 Btu/hr
- 24,000 Btu/hr
- 36,000 Btu/hr
- 60,000 Btu/hr

##### B. SHOWN AS FLOOR MOUNTED UNIT

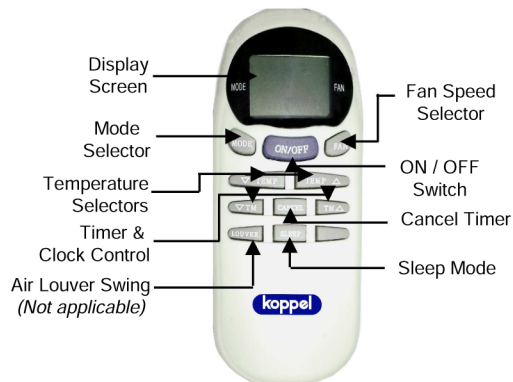


- 18,000 Btu/hr
- 24,000 Btu/hr
- 36,000 Btu/hr
- 60,000 Btu/hr

Actions	Descriptions
Indicator Lights POWER (YELLOW-GREEN)	Lights up when the unit is switched ON.
TIMER (RED)	Lights up upon activation of either one or both of the START/STOP timers.
COMP (YELLOW-GREEN)	Valve on indicator.

#### 3. IDENTIFICATION – REMOTE CONTROL

##### Remote Control - Switch Buttons



Note: Temperatures can easily be switched from °C to °F just by holding the TEMPERATURE SELECTORS simultaneously.

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#### Remote Control - Display Panel



#### Preparation For Unit Operation

- Slide the battery cover from the back of the remote control.
- Insert two AAA batteries into the battery compartment.
- Slide the battery cover back in place. The display panel then flashes.

#### 4. POWER SETTING

##### Power Up / Reset

- After start-up, the control will restore saved parameter information from the non-volatile memory.
- These parameters were in effect before the last power down or reset.
- The following are the list of parameter information in non-volatile memory
  - Operating mode
  - Set temperature
  - Fan speed
  - Air Sweep function
- If there is no memory setting available, then the controller default is OFF.
- If the non-volatile memory is corrupted, the following defaults are used
  - COOL mode
  - 25°C set temperature
  - HIGH fan speed

##### Power On / Off

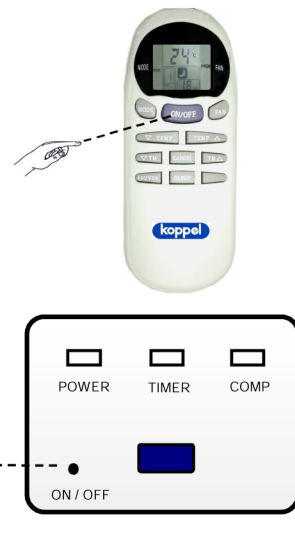
- The unit may be turned On or Off independently.
- The unit can be turned ON or OFF by these following methods:
  - Remote On/Off signal
  - Unit ON / OFF button
  - Programmable timer

##### Handset Remote Control ON / OFF signal

- When the control is turned ON by using remote handset signal, the setting in handset controller will take effect.

##### Unit ON / OFF Button

- When the control is turned ON by On/Off button, the unit will first run in these operating settings:
  - COOL mode
  - 25°C set temperature
  - AUTO fan speed
- When the ON / OFF is pressed again, the unit will turn OFF.



#### 5. OPERATING MODES: COOL, DRY, FAN

- User preferred operating mode is selected through the handset remote controller.
- Available user selectable modes are: COOL, DRY, FAN.

##### Cool Mode

- Press MODE button until "COOL" appears in the display.
- User can set the temperature from 16°C to 30°C. Set the desired temperature by pressing the UP or DOWN button.
- Indoor fan is always running. User can select all fan speed.



##### Dry Mode

- Press MODE button until "DRY" appears in the display.
- User can set the temperature from 16°C to 30°C. Set the desired temperature by pressing the UP or DOWN button.
- Fan is always running in LOW speed.



##### Fan Mode

- Press MODE button until "FAN" appears on top of the display.
- No temperature setting is allowed.
- Set the desired fan speed by pressing the FAN button. User selectable speeds are LOW, MEDIUM, and HIGH.
- Compressor and outdoor fan are turned OFF.

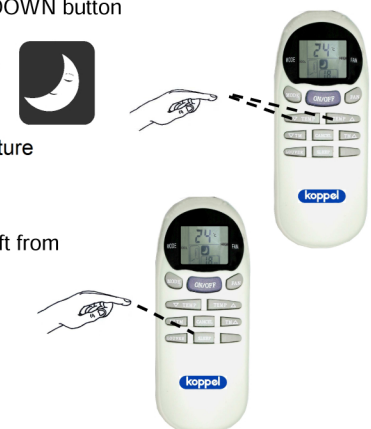
##### Off Operation

- All the indicator lights are off, except for the timer indicator when the timer function is active.
- The handset remote control display is still on.

#### 6. SLEEP FUNCTION

##### Sleep Function

- Upon turning on the SLEEP function, adjust first the room temperature to its desired value by pressing the UP / DOWN button (TEMPERATURE SELECTORS).
- Press the SLEEP button. The SLEEP icon will appear on the display.
- SLEEP function will operate once the desired temperature has been reached.




During SLEEP mode, room temperature will gradually drift from the set temperature. SLEEP mode will turn OFF when the room temperature reaches 2°C higher than the preset temperature. SLEEP function is possible during COOL mode only.

## 7. TIMER FUNCTION


### Timer Function

To set the TIMER to turn the unit on

Press the TM▲ or TM▼ button until the TIMER icon  appears.

Press again the TM▲ or TM▼ CONTROL buttons until the desired hour of turning on the unit is reached.

To set the TIMER to turn the unit off

Press the TM▲ or TM▼ button for the TIMER icon  to appear.

Press again the TM▲ or TM▼ CONTROL buttons until the desired hour of turning off the unit is reached.

### Turning off the TIMER

- Take note that the timer function is independent of the Power function. When the unit is turned off by the power button, the timer is not automatically canceled. If the on timer is engaged, the unit may turn on automatically by itself at the set time.
- Press the CANCEL button to clear off the set ON or OFF TIMER.



## 8. CARE AND MAINTENANCE

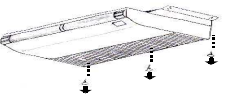




### Cleaning Your Air Filters

A dirty air filter will cause a reduction of airflow, which in turn causes the unit to overload and also consumes more electricity. Therefore regular cleaning is necessary for efficient and trouble-free operation.

### NOTE

When the 3 LED simultaneously blink twice every 3 seconds, it is time to clean the Air Filter. If blinking persists, call service.

**WARNING:** Ensure that the power supply is switched off before commencing maintenance work.

Remove the Return Air Grille Remove the screws on the return grille as shown in the figure.	
Remove the Air Filter from the Return Air Grille.	
Remove the dust from the air filter by using vacuum cleaner or if it is very dirty, wash it with soap and wipe dry before reinstalling it.	
Slide the Air Filter back in the Return Air Grille.	
Re-install the Return Air Grille.	

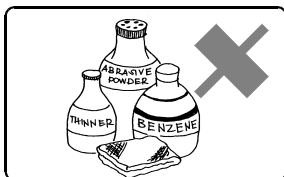
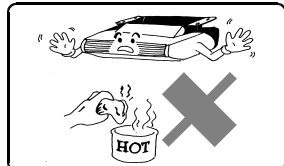
## 9. CLEANING THE UNIT

### Cleaning The Unit

- Clean the fan coil unit with a damp cloth and wipe it dry.
- Do not use water above 40°C for cleaning, as this will cause discoloration and deformation.
- Remove dust from the front covers and louvers area with your vacuum cleaner's thin nozzle.
- Do not splash or direct water to the body of the unit, as this may cause a short circuit.

**CAUTION:**

**Do not use thinner, benzene, abrasive powders or hot water to clean the unit.**

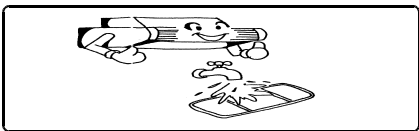


### Not Operating For A Long Period Of Time

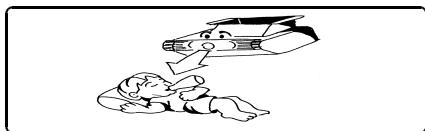
When the fan coil unit is not going to be used for a long period of time, switch off the power from the circuit breaker. Remove the batteries from the remote control.

### Before Putting The System Back To Operation

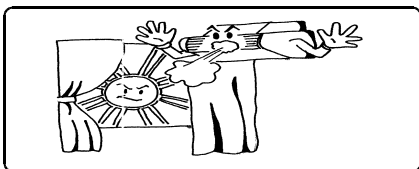
Turn on the main power to the system. Re-install the batteries into the remote control transmitter. Run the unit in fan mode for a while to clear the air flow before you operate it in another mode.



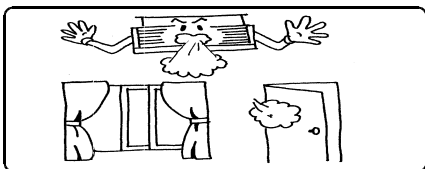
- Clean the filter every other week for higher efficiency.



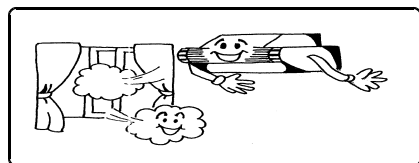
- Do not position the airflow directly at infants, aged or sick person.



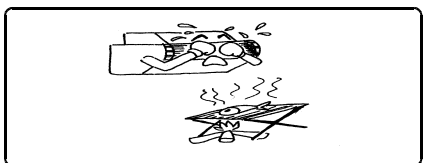
- Use curtains or blinds to prevent heat gain from the sun light to the room. Doing so will help reduce electric consumption.



- Close all windows and doors when operating the unit so that there is no leakage of conditioned air outside the room.



- It is good to introduce fresh air into the room for awhile by opening the window but not too long as energy will be drained out.



- Do not locate a heater or any other heat source near the unit. The heat may deform plastic parts.

## 8. TROUBLE-SHOOTING

Check the following before you contact the service man, you may find the solution to your problems and save yourself time and money. And if the problem still persists, contact your service person.

PROBLEM	CAUSES
No operation . - No Power.	<ul style="list-style-type: none"> <li>• Check to see if the power supply switch is OFF.</li> <li>• Check to see if you have a power failure.</li> </ul>
No operation 3 LED simultaneously blinking every 3 seconds.	Call for service.
Air Conditioner runs but does not cool.	<ul style="list-style-type: none"> <li>• Check whether the room temperature setting is correct.</li> <li>• Check whether the sunlight is directly shining into the room. If yes, use curtains or blinds to prevent heat gain to the room.</li> <li>• Check whether the door and window are opened.</li> <li>• Ensure that no heating appliances have been placed under the return air area.</li> <li>• Check the air filter for dirt.</li> <li>• Call for service if the room is not cold after running for more than a reasonable cooling time.</li> </ul>
Remote control is not working	Call for service.
There's a strange noise coming from the unit.	Call for service.
Water leaking from the fan coil unit and water drain line.	Turn the unit off and call for service.

### THE FOLLOWING ARE NORMAL CONDITIONS FOR THE UNIT.

Low Noise	<ul style="list-style-type: none"> <li>• A soft, swishing noise can be heard during operation or immediately after the unit is turned on. This is the sound of the circulating chilled water.</li> </ul>
Condensate water or water droplets on the air outlet.	<ul style="list-style-type: none"> <li>• In Cool condensate water can sometimes be seen forming on the air outlet due to the differences in temperature between the room in temperature between the room air and outlet air.</li> </ul>



### PRODUCT WARRANTY CERTIFICATE

KOPPEL, INC., warrants to the purchaser of this product that it will furnish labor and/or replacement part or at its option, repair any part thereof which proves upon inspection by KOPPEL, INC. or its authorized service company, to have been defective within one (1) year from the date of original purchase, if it was used thereafter solely within the Republic of the Philippines, in accordance with the terms of this warranty through the KOPPEL, INC. Service Department or any of its authorized service company.

This warranty is non-transferable and does not apply to damage(s) arising from accident, improper use or abuse, force majeure such as typhoons, floods, lightning, earthquakes among others, from use with voltages beyond THE ALLOWABLE VOLTAGE RANGE OF 207 TO 253 VOLTS, or from failure to follow operating instructions provided. If the serial number of the unit is removed, obliterated or defaced, or if the unit is faultily installed, tampered with or altered by anyone other than a duly authorized service personnel, service dealer or accredited installer of KOPPEL, INC., this warranty is considered null and void.

KOPPEL, INC. is not responsible and will not be held liable in contract or in tort (including strict liability and negligence) for any special, indirect or consequential damages, including but not limited to damage to structure or contents, or injury to persons by reason of the installation, use or failure of any KOPPEL, INC. products.

UNIT MODEL : \_\_\_\_\_

SERIAL NUMBER : \_\_\_\_\_

Manufacturer reserves the right to discontinue, or change at any time, specification or designs without notice and without incurring any obligation.

PN: X398816090018  
Rev. 02

(OWNER'S COPY)



### WARRANTY REGISTRATION FORM

UNIT MODEL : \_\_\_\_\_

SERIAL NUMBER : \_\_\_\_\_

OWNER'S NAME : \_\_\_\_\_ TEL NO.: \_\_\_\_\_

ADDRESS : \_\_\_\_\_

DEALER'S NAME : \_\_\_\_\_

DATE PURCHASED : \_\_\_\_\_

INSTALLER'S NAME : \_\_\_\_\_

**IMPORTANT !** In order not to void this warranty please fill up and detach this Warranty Registration Form and, within ten (10) days from date of receipt of equipment, **mail** to Koppel, Inc. or send by **fax** to No. (02) 823-6999. Also you can visit **www.koppel.ph**